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(71) Applicant: MOLD-MASTERS LIMITED Georgetown Ontario L7G 4X5 (CA)

(72) Inventors:

 Gellert, Jobst Ulrich Georgetown, Ontario L7G 2X1 (CA)

 Babin, Denis Georgetown, Ontario L7G 5W8 (CA)

 Fischer, Jonathon Oakville, Ontario L6J 3Z8 (CA)

(74) Representative:
Laubenthal, Thomas Wilhelm (DE)
Grünecker, Kinkeldey,
Stockmair & Schwanhäusser
Maximilianstrasse 58

D-80538 München (DE)

(54) Compact cartridge hot runner nozzle having two heaters

(57) The present invention provides an electrically heated nozzle (22) for injection molding which is insulated to prevent conduction of electricity and loss of thermal transmission to the casing, wherein a first heater (80) and a second heater (90) are in thermal contact with said nozzle. At least a part of the electrical insulation

comprises a layer of dielectric insulator material (84) with an electrical resistance wire heater (80) wound spirally thereabout and another dielectric insulator layer (86) thereover. The first and second insulating layers (84, 86) may be provided by spraying or through telescoping, self-supporting sleeves.

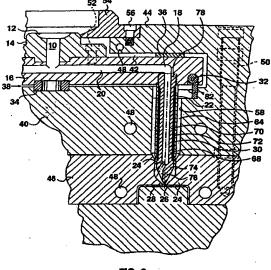


FIG. 2



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Application Number EP 02 02 7569

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